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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: DAVID LUK TOW Examiner #: 71263 Date: 10/16/00
Art Unit: 1653 Phone Number 308.3213 Serial Number: 09/486062
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if

Title: Cyclopeptide derivatives as adhesion inhibitors.

Applicants: HOLZEMANN, GUNTHER; GOODMAN, SIMON L.

Earliest Priority Date: 8/23/97

Edward Hart
Technical Info Specialist
STIC / Biotech
CM1 12C14 Tel: 305-9203

Applicants are claiming the compounds on the attached sheet.

R¹ = anything;

R² = anything;

R³ = anything;

R⁴ = anything;

n = 1-4

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NA Sequence (#) _____

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Structure (#) _____

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FILE COVERS 1967 - 27 Oct 2000 VOL 133 ISS 18
 FILE LAST UPDATED: 26 Oct 2000 (20001026/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Now you can extend your author, patent assignee, patent information, and title searches back to 1907. The records from 1907-1966 now have this searchable data in CAOLD. You now have electronic access to all of CA: 1907 to 1966 in CAOLD and 1967 to the present in CAPLUS on STN.

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FEF G1=(1-4) C
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 MLEVEL IS CLASS AT 31 32 33
 DEFAULT ELEVEL IS LIMITED
 ECOUNT IS UNLIMITED AT 31 32 33

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

L3 7 SEA FILE=REGISTRY SSS FUL L1
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L4 1 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> d ibib abs hitrn l4 tot

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1999:147913 CAPLUS
 DOCUMENT NUMBER: 130:153991
 TITLE: Preparation of cyclo-peptide derivatives
 INVENTOR(S): Hueltemann, Guenter; Goodman, Simon
 PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
 SOURCE: Ger. Offen., 18 pp.
 COLEN: GWKMBK
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19736772	A1	19990220	DE 1997-19736772	19970823
WO 9910371	A2	19990304	WO 1998-EP5161	19980814
WO 9910371	A3	19990527		
W: AL, AM, AT, AU, AC, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LF, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, PC, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, BG, KZ, MD, PU, TJ, TM FW: GH, GM, KE, LS, MW, SD, SE, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GE, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MF, NE, SN, TD, TG AU 9895319 A1 19990316 AU 1998-95319 19980814 EP 1007545 A2 20000614 EP 1998-943833 19980814 R: AT, BE, CH, DE, DK, ES, FF, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, IT, LV, FI ZA 9807558 A 19990328 ZA 1998-7558 19980820 NO 2000000860 A 20000122 NO 2000-860 20000222 PRIORITY APPLN. INFO.: DE 1997-19736772 19970823 WO 1998-EP5161 19980814 OTHER SOURCE(S): MARPAT 130:153991 GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. [I: A = Gly, Ala, NHNHOC; B = II; C = (CO)p-CH:q-(CO)r or (CO)p-CH:CH-(CO)r; m, p, r = independently 0 or 1; n, q = independently 1-4; R, R1 = independently H, alkyl; R, R1 together = C(R2):C(R3) or disubstituted 2-O6H2-R4,R5; R1-R5 independently H, alkyl, (un)substituted aryl, OF6, halogen, NO2, NR6,R6', NHCO2R6, CN, NHSO2R6, C(O)OP6, C(O)R6; X = H, halogen, alkyl, (un)substituted aryl; R6, R6' = independently H, alkyl, Ph, CH2Ph], useful as integrin inhibitors, were prepd. for use in human or veterinary medicine (no data). Thus, 3-(S)-3-amino-3-(4-methyl-3-nitrophenyl)propionic acid Me ester was resolved from the 3(F,S)-mixt. and reacted first with succinic anhydride and then H-Arg(Mtr)-Gly-CBu-t to give III, which was cyclized and deprotected to give IV.

IT 220307-40-4P 220307-41-5P 220307-42-6P
 220307-43-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation, (prepn. and reaction of in the prepn. of cyclo-peptide derivs. for use as medicaments,

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IT 220307-44-8P 220307-45-9P 220307-46-0P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of for use as medicaments)

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FILE COVERS 1907-1965

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1965. TIFF images of CA abstracts printed between 1907-1965 are available in the PAGE display formats.

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L5 0 L3

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STRUCTURE FILE UPDATES: 26 OCT 2000 HIGHEST RN 299893-04-2

DICTIONARY FILE UPDATES: 26 OCT 2000 HIGHEST RN 299893-04-2

TOCA INFORMATION NOW CURRENT THROUGH July 8, 2000

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=> d ide can 1: 1-7

DE ANSWER 1 OF 7 REGISTRY COPYRIGHT 2000 ACS

EN 220307-46-0 REGISTRY

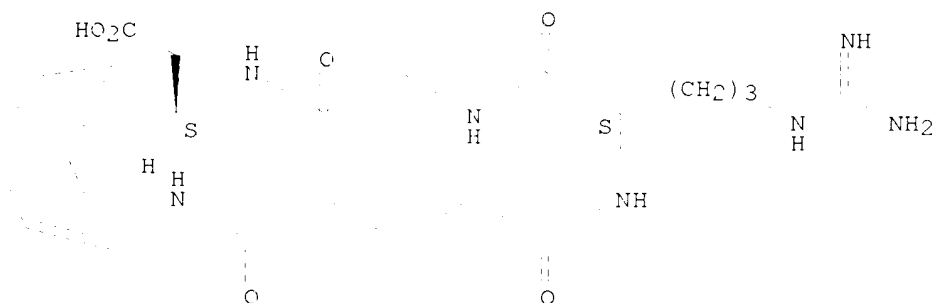
CU .beta.-Alanine, N2-(4-carboxy-1-oxobutyl)-L-arginylglycyl-3-(3-aminophenyl)-, (1.fwdarw.3)-lactam, (3S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

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MF C22 H31 N7 O6
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

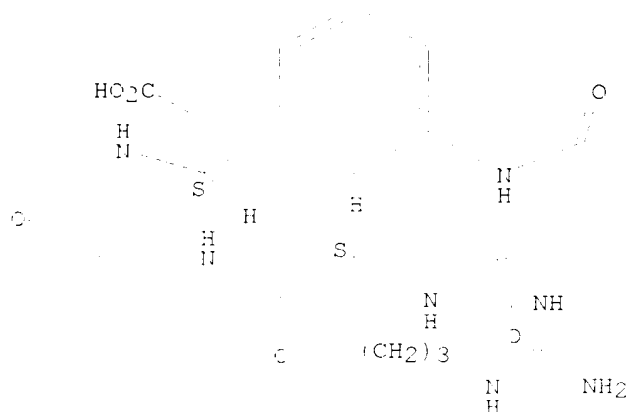


1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:153991

L3 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2000 ACS
 RN 220307-45-9 REGISTRY
 CN .beta.-Alanine, N2-(3-carboxy-1-oxopropyl)-L-arginylglycyl-3-(3-aminophenyl)-, (1S,3S,9S)-lactam, (3S)- (9CI) (CA INDEX NAME)
 ES STEREOSEARCH
 MF C21 H29 N7 O6
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

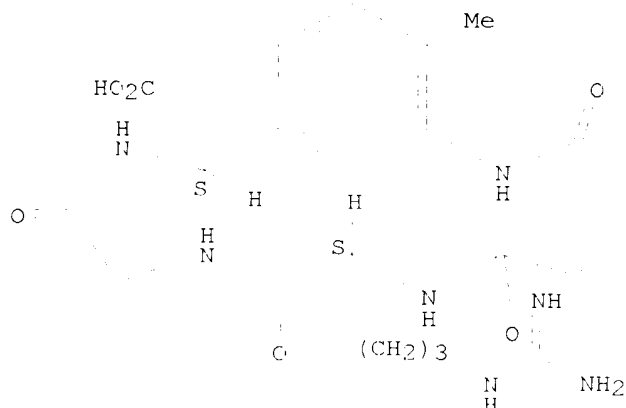
REFERENCE 1: 130:153991

L3 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2000 ACS
 RN 220307-44-8 REGISTRY
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 ES STEREOSEARCH
 MF C22 H31 N7 O6
 SR CA

Searched by Edward Hart 305-9203

LC STN Files: CA, CAPLUS

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:153991

L3 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2000 ACS

RN 220307-43-7 REGISTRY

CN .beta.-Alanine, N2-(4-carboxy-1-oxobutyl)-N5-[imino[[4-methoxy-2,3,6-trimethylphenyl)sulfonyl]amino]methyl]-L-ornithylglycyl-3-(3-aminophenyl)-, (1S,2R,3R)-lactam, (3S)-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

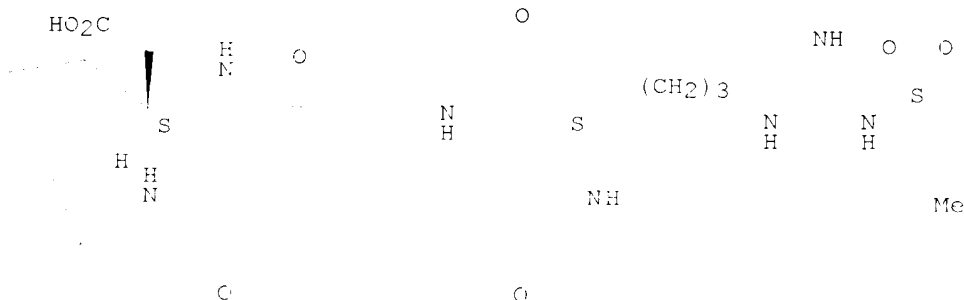
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SE CA

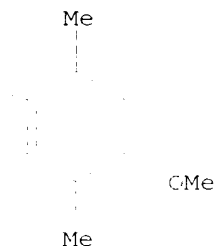
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

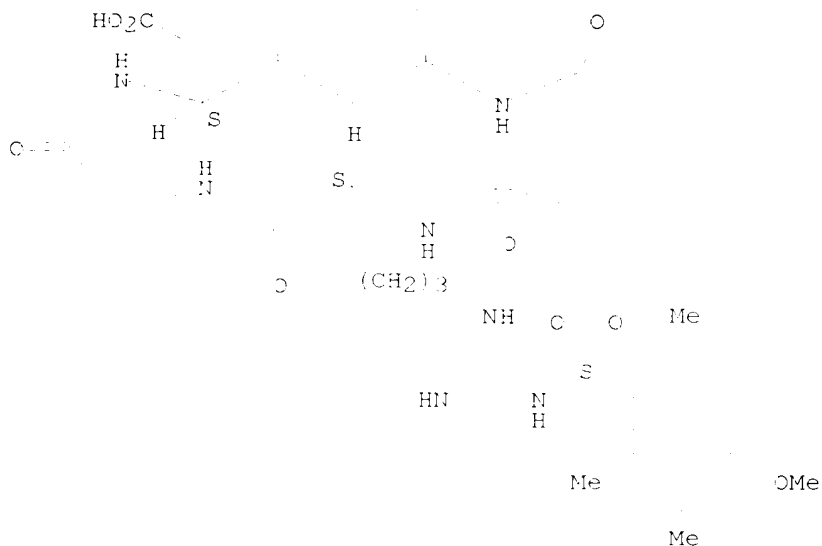


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:153991

L3 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2000 ACS
RN 220307-42-6 REGISTRY
CM .beta.-Alanine, N2-(3-carboxy-1-oxopropyl)-N5-[imino[[(4-methoxy-2,3,6-trimethylphenyl)sulfonyl]amino]methyl]-L-ornithylglycyl-3-(3-aminophenyl)-, (1S,2R,3R)-lactam, (3S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H41 N7 O9 S
SF CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



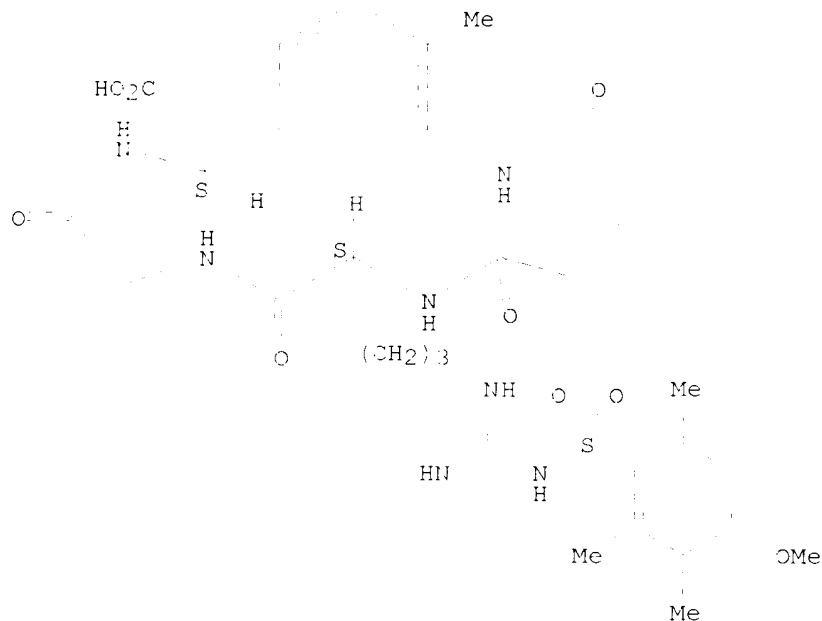
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:153991

L3 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2000 ACS
Searched by Edward Hart 305-9203

RN 220307-41-5 REGISTRY
 CN .beta.-Alanine, N2-(3-carboxy-1-oxopropyl)-N5-[imino[[4-methoxy-2,3,6-trimethylphenyl)sulfonyl]amino]methyl]-L-ornithylglycyl-3-(3-amino-4-methylphenyl)-, (1.fwdarw.3)-lactam, (3S)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C32 H43 N7 O9 S
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

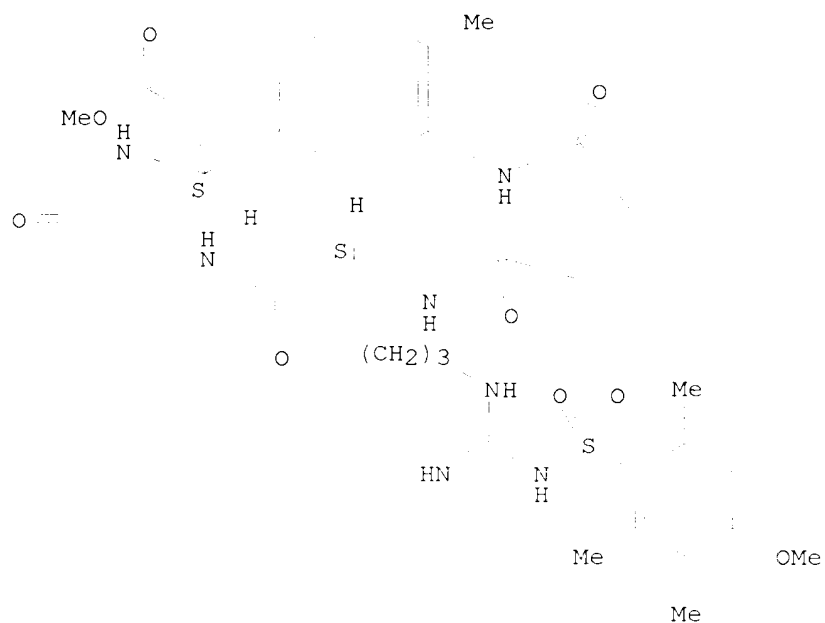


1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:153091

L3 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2000 ACS
 RN 220307-40-4 REGISTRY
 CN .beta.-Alanine, N2-(3-carboxy-1-oxopropyl)-N5-[imino[[4-methoxy-2,3,6-trimethylphenyl)sulfonyl]amino]methyl]-L-ornithylglycyl-3-(3-amino-4-methylphenyl)-, 3-methyl ester, (1.fwdarw.3)-lactam, (3S)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C33 H45 N7 O9 S
 SF CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:153991